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EUROPEAN PATENT APPLICATION

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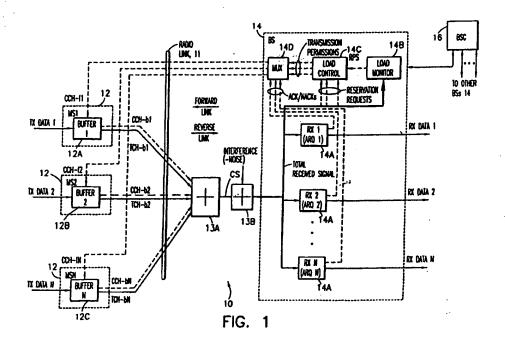
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 NL PT SE
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- (54) Load control method and apparatus for CDMA cellular system having circuit and packet switched terminals
- (57) A method for operating a cellular communications system of a type that includes a first type of terminal having real-time transmission needs and a second type of terminal having nonreal-time transmission needs. The method includes the steps of (a) determining

at periodic intervals a total amount of capacity required to service the first type of terminals; (b) subtracting the determined amount from a current maximum capacity; and (c) allocating all or some of the remaining capacity, if any, to one or more of the second type of terminals.





EUROPEAN SEARCH REPORT

Application Number

EP 97 30 7132

		PERED TO BE RELEVANT Indication, where appropriate,	Relevant	CLASSIFICATION OF THE
Category	of relevant pass		to claim	APPLICATION (Int.Cl.6)
X	FOR INTEGRATED VOIC CDMA PACKET RADIO M IEEE JOURNAL ON SEL COMMUNICATIONS, vol. 12, no. 4, 1 M pages 654-664, XPOO ISSN: 0733-8716	ECTED AREAS IN lay 1994 (1994-05-01), 10588842 1 - column 7, line 23 * 5 - line 19 *	1,2,4,5, 8,17,20, 31,32	H04Q7/38 H04L12/64
X	MICRO-CELLULAR NETW MULTIPLE CLASSES OF WIRELESS NETWORKS, vol. 2, no. 3, 1 Au pages 195-203, XPOO ISSN: 1022-0038	TRAFFIC" Igust 1996 (1996-08-01), 10625338	1-3,5, 11,17, 18,20,25	
	* column 5, line 34 * column 9, line 36 * column 16, line 1	0 - column 17, line 2 *		TECHNICAL FIELDS SEARCHED (Int.CI.6) HO4L HO4Q
A	OLIVEIRA C ET AL: GUARANTEE IN HIGH-S WIRELESS NETWORKS" 1996 IEEE INTERNATI COMMUNICATIONS (ICO TECHNOLOGIES FOR TO DALLAS, JUNE 23 - 2 VOl. 2, 23 June 19 728-734, XP00062587 INSTITUTE OF ELECTR ENGINEERS ISBN: 0-7 * column 1, line 35 * column 6, line 42	1-3,5,6, 8,16-18, 20,21,29		
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	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	12 October 1999	Pec	ci, R
X : parti Y : parti doct A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with and ament of the same category inological background —written disclosure mediate document	E : earlier patent doc after the filing dal	curnent, but public te n the application or other reasons	shed on, or



EUROPEAN SEARCH REPORT

Application Number EP 97 30 7132

	DOCUMENTS CONSIDERED Citation of document with Indication		Relevant	CLASSIFICATION OF THE
Category	of relevant passages	n, where appropriate,	to claim	APPLICATION (Int.Cl.6)
A	EP 0 587 980 A (ROKE MA	NOR RESEARCH)		
	23 March 1994 (1994-03-	23)		
	* page 10, line 4 - lin	e 19 *		
	* page 12, line 25 - pa	ge 15, line 3 *		
Α	WO 95 35637 A (NOKIA MO	BILE PHONES LTD		
	NOKIA TELECOMMUNICATIO	NS OY (FI); GLISIC)		
	28 December 1995 (1995-	12-28)		
	* page 12, line 25 - pa * claims 1,7-10 *	ge 15, 11ne 3 *		
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				TECHNICAL FIELDS SEARCHED (Int.CI.6)
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				,
	The present search report has been d			
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	12 October 1999		ci, R
	ATEGORY OF CITED DOCUMENTS	T : theory or principle u E : earlier paters docum		
Y:par	ticularly relevant if taken alone ticularly relevant if combined with another	after the filing date D : document cited in ti		
doc	ument of the same category hnological background	L : document cited for o	other reasons	
			e petent tamih	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 97 30 7132

This annex lists the patent family members relating to the patent documents cited in the above—mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-10-1999

						12 10 1
	atent document d in search repo		Publication date		Patent family member(s)	Publication date
EP	0587980	A	23-03-1994	GB FI	2270815 A 934088 A	23-03-199 19-03-199
WO	9535637	A	28-12-1995	FI AU AU CN EP JP NO US	942961 A 695305 B 2739795 A 1130972 A 0717913 A 9505197 T 960657 A 5754541 A	21-12-199 13-08-199 15-01-199 11-09-199 26-06-199 20-05-199 19-04-199
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82